

Data Sheet

jensen transformers
INCORPORATED

JE-7552

ELECTRET MICROPHONE OUTPUT TRANSFORMER

GENERAL CHARACTERISTICS

Turns Ratio	7.57:1 (actual)
Impedance Ratio	4K/150 (modified)
Primary Source Impedance	4K ohms (typical electret mic)
Secondary Load Impedance	1K ohms (typical mic pre input)
Faraday Shield	None
Magnetic Shield	None
Max. Input Level at 20 Hz	+6 dBV (Re: 0.775V)

PHYSICAL CHARACTERISTICS

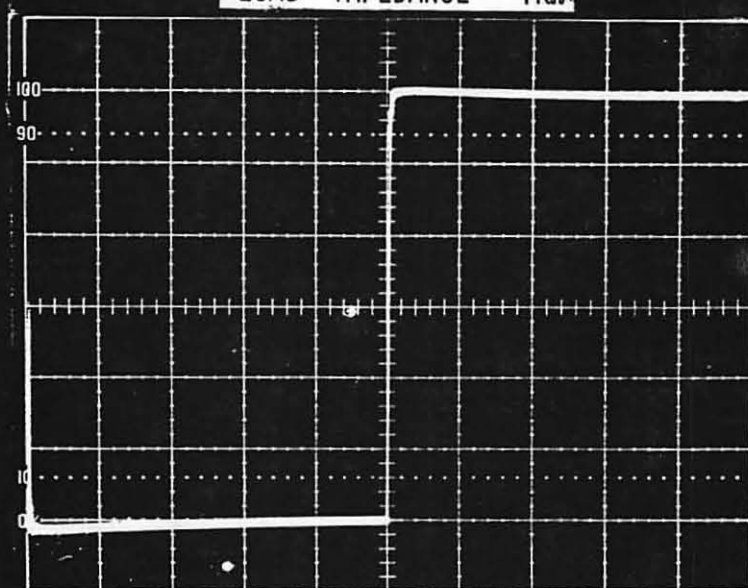
Package	Open construction
Termination	Wire leads
Dimensions	0.56 x 0.41 x 0.4 inch
Mounting	None, channel frame available

TYPICAL PERFORMANCE

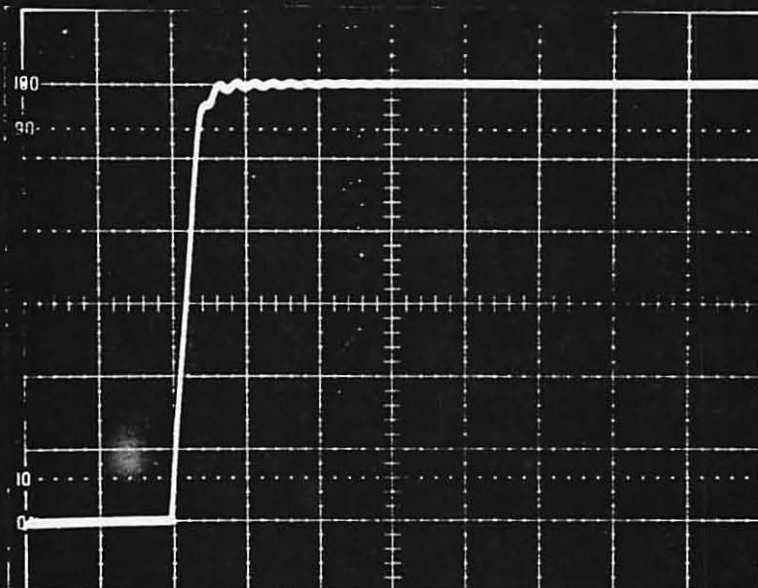
Voltage Loss	17.58 dB
Input Impedance	53K ohms @ 1 kHz
	48K ohms @ 10 kHz
Secondary Source Impedance	174 ohms @ 1 kHz
	178 ohms @ 10 kHz
Total Harmonic Distortion (Below Saturation)	0.2 % max. @ 20 Hz
	0.13% max. @ 30 Hz
	0.056% max. @ 50 Hz
	0.0046% @ 1 kHz
Input Level @1% Saturation (dBV Re: 0.775 volts)	+4 dBV @ 20 Hz
	+8 dBV @ 30 Hz
	+13 dBV @ 50 Hz
Frequency Response	-0.42 dB @ 20 Hz
(Re: 1 kHz)	+0.05 dB @ 20 kHz
	(No resonance peak)
	-3 dB @ 172 kHz
Phase Response	-5° @ 20 kHz
Rise Time	1.75 uS (10%-90%)
Overshoot	(none)
Ringing	<3%, <10 periods
Resonance Frequency	830 kHz

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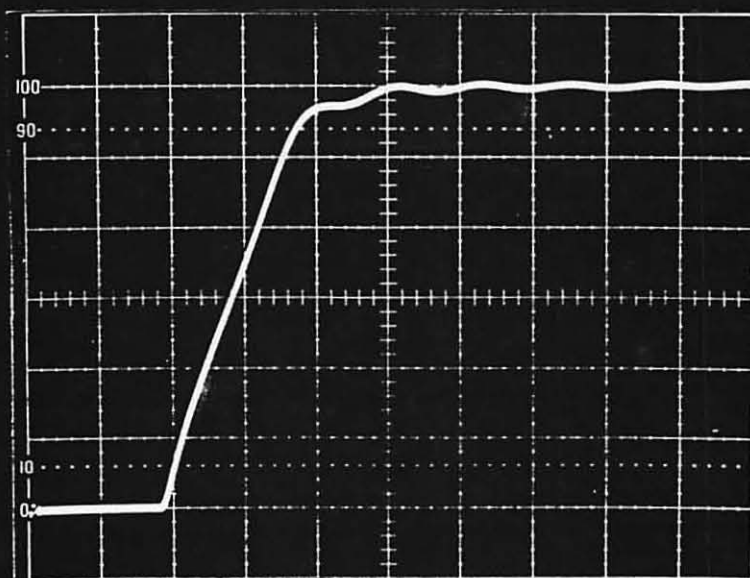
SOURCE IMPEDANCE = $4\text{K}\Omega$
LOAD IMPEDANCE = $1\text{K}\Omega$



50 μS /division



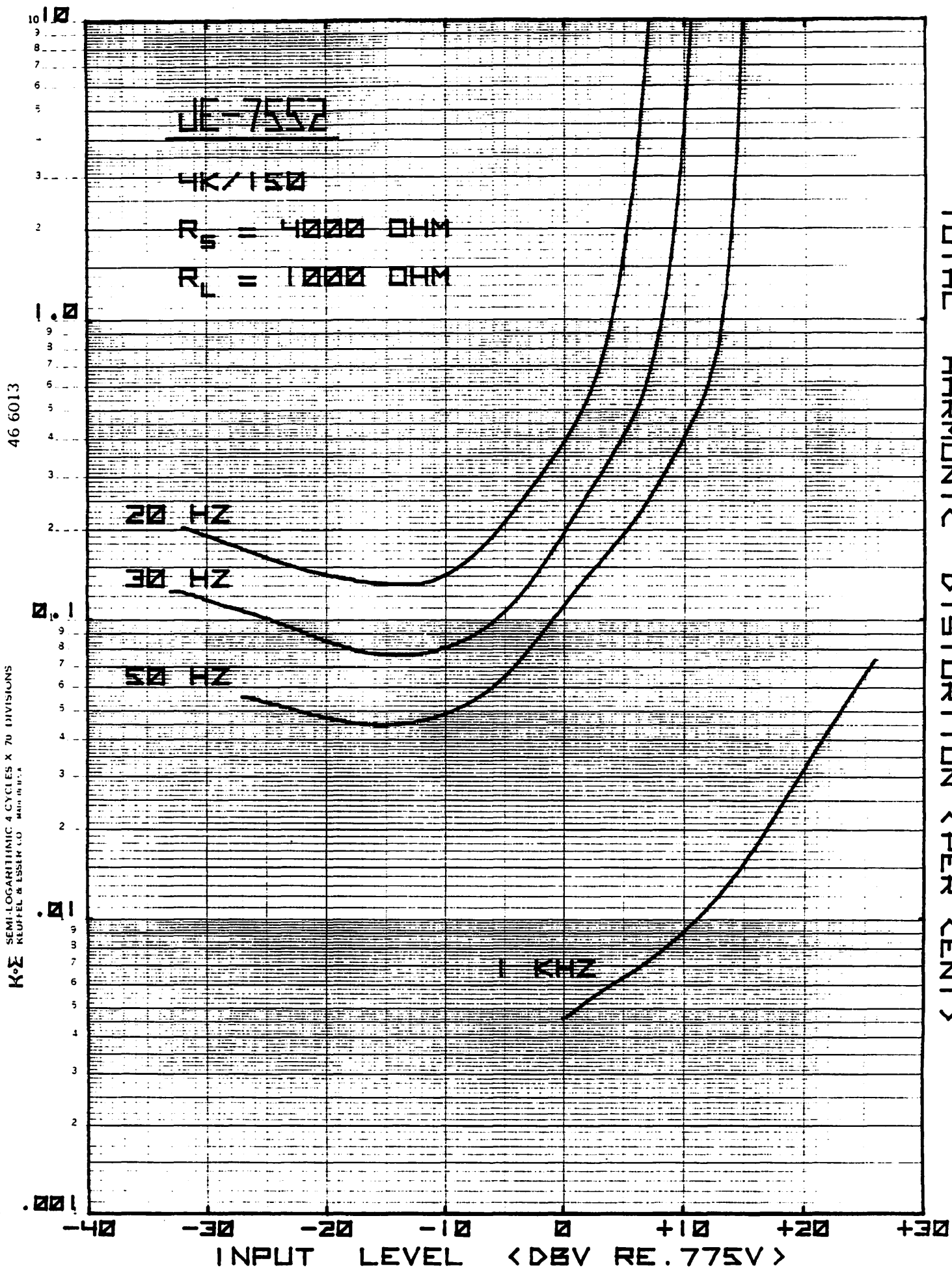
5 μS /division



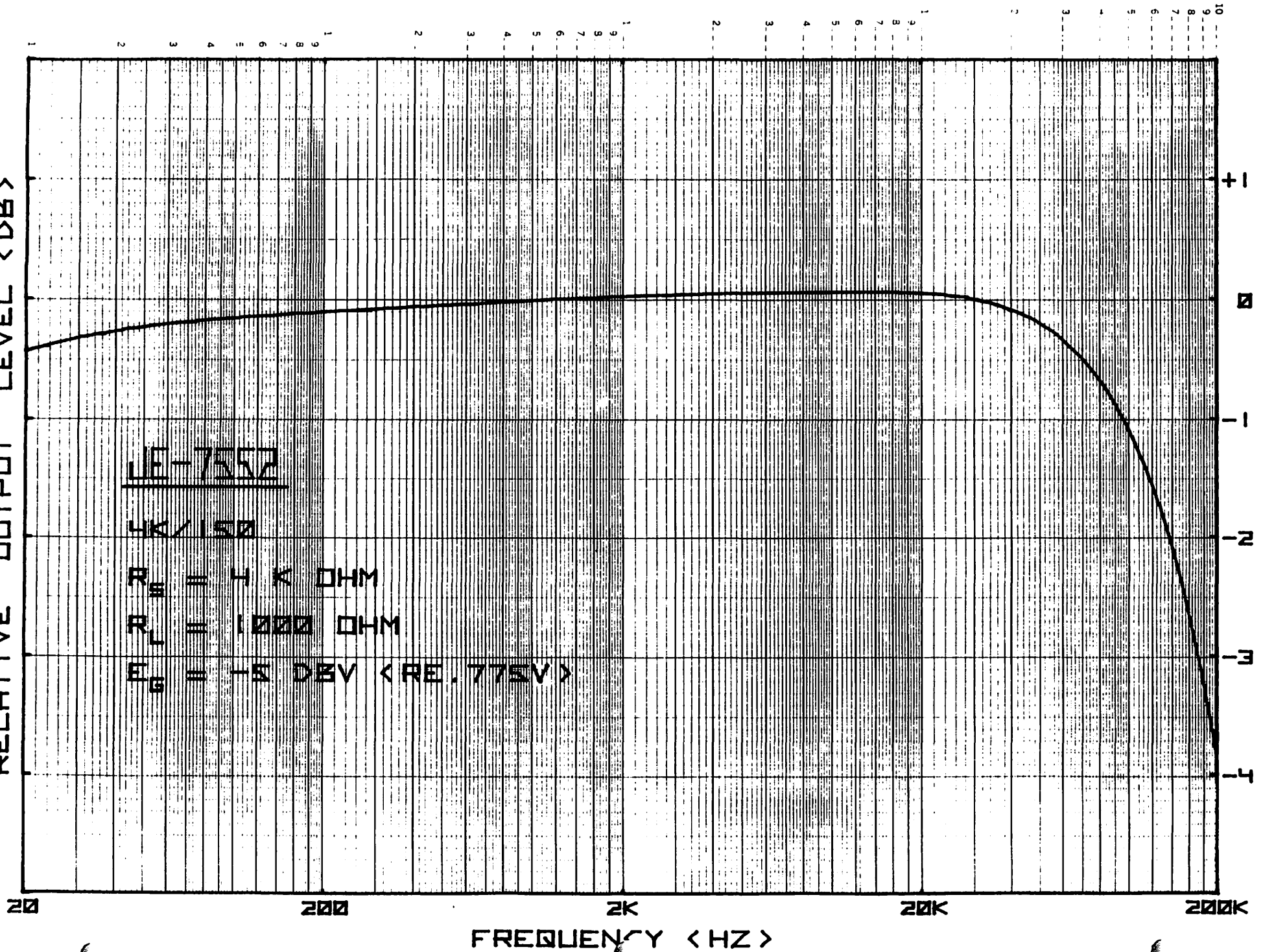
1 μS /division

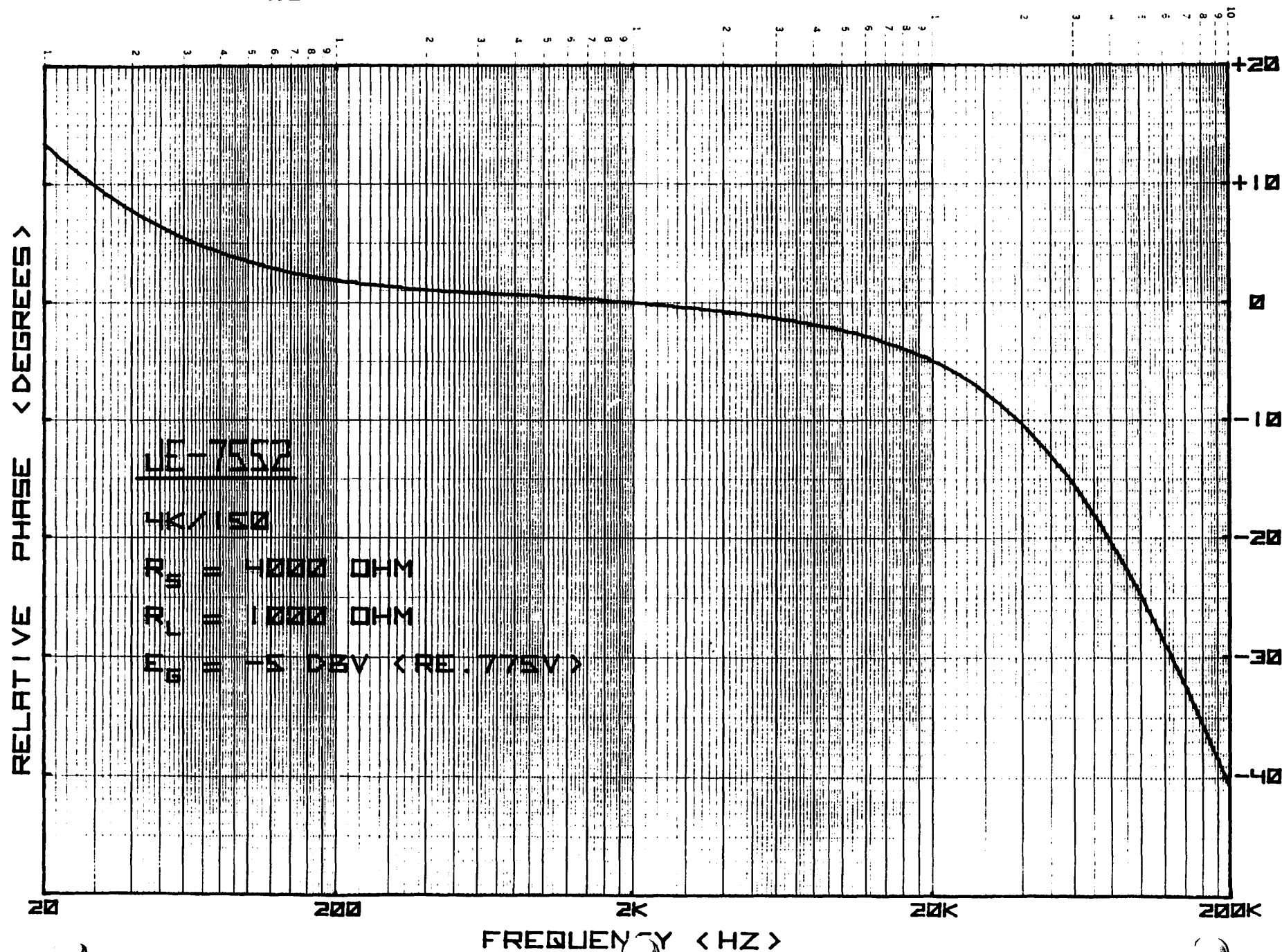
46 6013

SEMI-LOGARITHMIC 4 CYCLES X 70 DIVISIONS
NEUFEL & LESSER CO. MADE IN U.S.A.



RELATIVE OUTPUT LEVEL < DB >





INPUT IMPEDANCE < OHM >

JE-7552

4K/150

$R_L = 1000 \text{ OHM}$

$E_B = \langle 1 \rangle -5 \text{ DBV (RE. 775V)}$

$\langle 2 \rangle -40 \text{ DBV}$

1

2

20

200

2K

20K

FREQUENCY < HZ >

60K

50K

40K

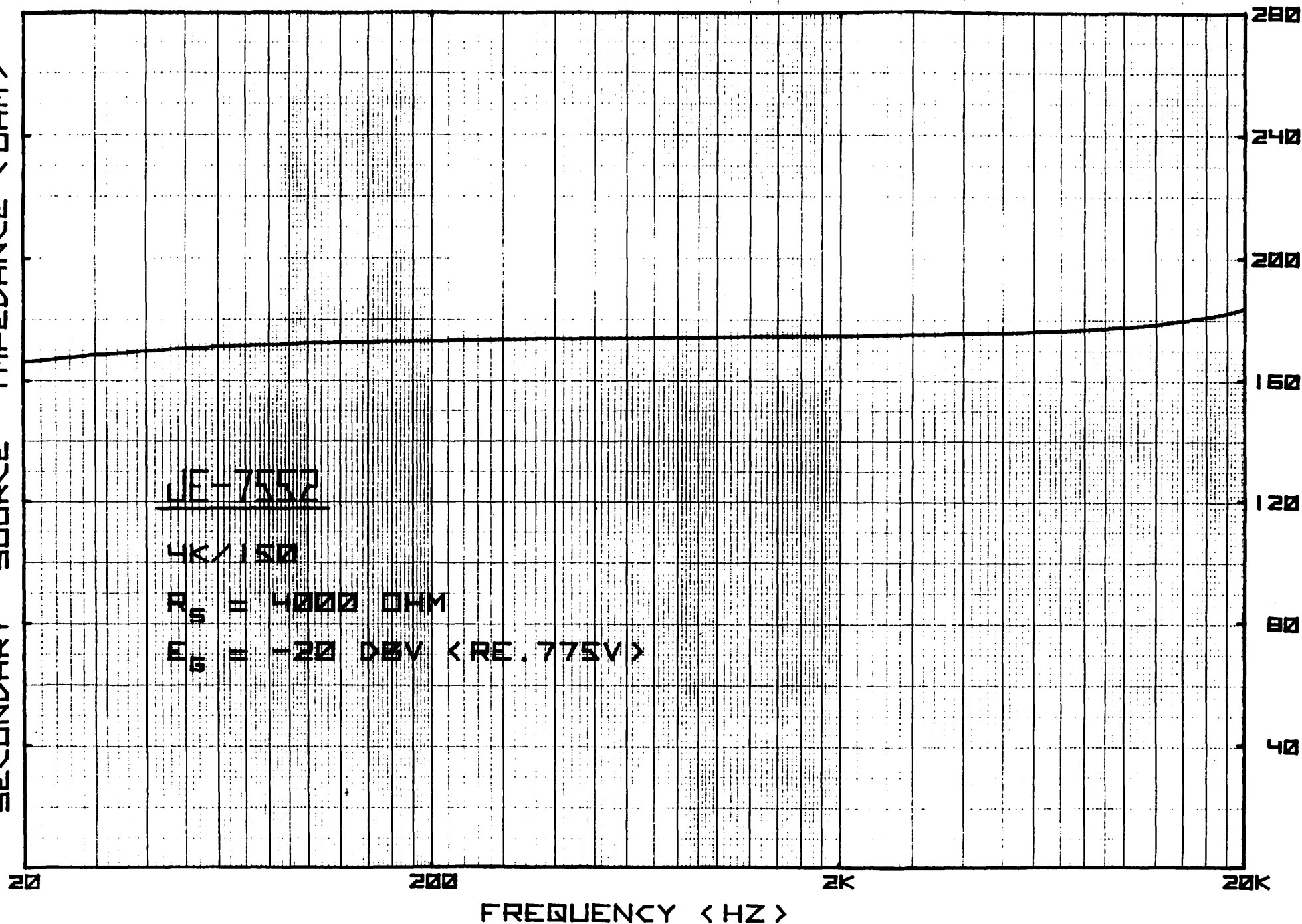
30K

20K

10K

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SECONDARY SOURCE IMPEDANCE < OHM >



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By REICHENBACH ENGINEERING

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WIRING DIAGRAM

